



What specification is proposed?

OCR.

Why study Computer Science?

The UK is suffering from a shortage in people who understand how computers work, and who can solve tomorrow's problems using computers. The demand for programmers is ever-increasing. This course will equip you with the technical and practical skills to meet this demand, whilst developing your understanding of the impact computers have on our lives. The key features of this course encourage an emphasis on computational thinking and the mathematical skills used to express computational laws and processes, such as, for example, Boolean algebra/logic, and comparison of the complexity of algorithms. If you have a high mathematical aptitude, strong logical reasoning skills, and a keen desire to understand computing fundamentals, then you should consider this course.



What will I be covering in the course and how will I be assessed?

2 The specification overview

2a. Overview of A Level in Computer Science (H446)

Learners must take three components (01, 02 and 03 or 01, 02 and 04).

Content Overview	Assessment Overview	
<ul style="list-style-type: none"> The characteristics of contemporary processors, input, output and storage devices Software and software development Exchanging data Data types, data structures and algorithms Legal, moral, cultural and ethical issues Elements of computational thinking Problem solving and programming Algorithms to solve problems and standard algorithms <p><i>The learner will choose a computing problem to work through according to the guidance in the specification.</i></p> <ul style="list-style-type: none"> Analysis of the problem Design of the solution Developing the solution Evaluation 	Computer systems (01) 140 marks 2 hours and 30 minutes written paper	40% of total A level
	Algorithms and programming (02*) 140 marks 2 hours and 30 minutes written paper	40% of total A level
	Programming project (03* or 04**) 70 marks Non-exam assessment	20% of total A level





What can I do with this subject?

The technology sector is rapidly growing as computers become increasingly enmeshed in a range of different industries. This means there are a wide selection of degrees relevant to computing, and employees with computing qualifications will be able to access a variety of different jobs.

Possible opportunities within computing include: software developer, games developer, software engineer, electrical engineer, ethical hacker and data analyst.

Specific entry requirements for this course

B/6 in GCSE Computing (or grade 6 in Maths if not previously scheduled)

